

09/08/395

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2 **ABSTRACT**

3 A partial pre-aggregation database operation improves processing
4 efficiency of database queries by reducing the number of records input into a
5 subsequent database operation, provided the query includes a final aggregation. A
6 query optimizer is provided to determine when it is economical to partially pre-
7 aggregate data records and when it is not. The partial pre-aggregation creates a
8 record store in memory as input records are received. The record store is then
9 used by another database operator, which saves the other database operator from
10 having to re-create the record store.

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